

WHAT IS CLAIMED IS:

- 1 1. An isolated nucleic acid molecule encoding a variant CD11b α subunit having the
2 Ile at position 332 replaced with an amino acid selected from Gly and Ala.
- 1 2. A isolated nucleic acid molecule encoding a polypeptide consisting of amino acids
2 144 to 331 of CD11b α subunit.
- 1 3. An isolated nucleic acid molecule encoding a polypeptide comprising amino acids
2 144 to 332 of CD11b α subunit wherein the Ile at amino acid 332 has been replaced by an
3 amino acid selected from Gly and Ala.
- 1 4. A polypeptide comprising amino acids 144 to 332 of CD11b α subunit wherein the
2 Ile at position 332 has been replaced by an amino acid selected from Gly and Ala.
- 1 5. A polypeptide comprising amino acids 144 to 331 of CD11b α subunit, the
2 polypeptide not comprising amino acids 332 to 1152 of CD11b.
- 1 6. An isolated nucleic acid molecule encoding a variant CD11a α subunit having the
2 Ile at position 331 replaced with an amino acid selected from Gly and Ala.
- 1 7. An isolated nucleic acid molecule encoding a polypeptide consisting of amino
2 acids 144 to 330 of CD11a α subunit.
- 1 8. An isolated nucleic acid molecule encoding a polypeptide comprising amino acids
2 150 to 331 of CD11a α subunit wherein the Ile at amino acid 331 has been replaced by an
3 amino acid selected from Gly and Ala.
- 1 9. A polypeptide comprising amino acids 150 to 331 of CD11a α subunit wherein the
2 Ile at position 331 has been replaced by an amino acid selected from Gly and Ala.
- 1 10. A polypeptide comprising amino acids 150 to 330 of CD11a α subunit, the
2 polypeptide not comprising amino acids 331 to 1223 of CD11a.

1 11. A method for determining whether a test compound is a candidate compound for
2 binding to CD11b, comprising:

3 (a) contacting a test compound with a polypeptide comprising amino acids 144 to
4 332 of CD11b α subunit wherein the Ile at amino acid 332 has been replaced by an amino
5 acid selected from Gly and Ala, and

6 (b) determining whether the test compound binds to the polypeptide,
7 wherein a compound which binds to the polypeptide is a candidate compound for
8 binding to CD11b.

1 12. A method for determining whether a test compound is a candidate compound for
2 binding to CD11a, comprising:

3 (a) contacting a test compound with a polypeptide comprising amino acids 150 to
4 331 of CD11a α subunit wherein the Ile at amino acid 332 has been replaced by an amino
5 acid selected from Gly and Ala, and

6 (b) determining whether the test compound binds to the polypeptide,
7 wherein a compound which binds to the polypeptide is a candidate compound for
8 binding to CD11a.